Index of Authors

Entries marked * refer to abstracts or titles of papers listed in Proceedings at meetings of the Society for Applied Bacteriology. Small roman numerals refer to pages in Proceedings at meetings of the Society for Applied Bacteriology.

Entries marked † refer to the titles of Symposium papers published in a separate volume.

ACHI, O. K. Microbiology of 'obiolor': a Nigerian fermented non-alcoholic beverage 321

*ADAMS, M. R., ETTEHADI, P., HERNANDEZ, M. & MROCEK, P. R. Mixed starter cultures in vegetable fermentations xxi

ADERIBIGBE, E. Y. & ODUNFA, S. A. Growth and extracellular enzyme production by strains of *Bacillus* species isolated from fermenting African locust bean, iru 662

AHMAD, A., CLARKE, S., BUCHAN, A. & SKINNER, G. R. B. Sequential release of antigens from chloroform-treated *Staphylococcus epidermidis*: application towards a possible vaccine 676

AHN, C. & STILES, M. E. Antibacterial activity of lactic acid bacteria isolated from vacuum-packaged meats 302

ALARCON, B., LOPEZ, M. M., CAMBRA, M., GORRIS, M. T. & GUERRI, J. Differentiation of *Erwinia carotovora* subsp. *carotovora* and *Erwinia carotovora* subsp. *atroseptica* isolated from potato by Western blot and subsequent indirect ELISA 17

AL-AZAWI, S. *see* AL-GHAZALI, M. R.

*ALCOCK, S. C., CHAFFEY, B. J., DODD, C. E. R., MORGAN, M. R. A. & WAITES, W. M. Detection of *Brochothrix thermosphacta* in model food systems by antibody linked probes xxi

AL-GHAZALI, M. R. & AL-AZAWI, S. *Listeria monocytogenes* contamination of crops grown on soil treated with sewage sludge cake 642

*ALMOND, J. W. *see* EVANS, D. J.

AL MUSALLAM, A. A. & RADWAN, S. S. Wool-colonizing micro-organisms capable of utilizing wool-lipids and fatty acids as sole sources of carbon and energy 806

ARAUJO, R. M., PARES, R. & LUCENA, F. The effect of terrestrial effluents on the incidence of *Aeromonas* spp. in coastal waters 439

ARIAS, J. M. *see* FAREZ-VIDAL, M. E.

ARIMI, S. M., PARK, R. W. A. & FRICKER, C. R. Study of haemolytic activity of some *Campylobacter* spp. on blood agar plates 384

*ARTHUR, M. & BLOOMFIELD, S. Interaction of chlorine-releasing agents with spore forms of *Bacillus subtilis* xx

*ASHWORTH, J. The effect of materials on water quality xiv

*ASHWORTH, J. The microbiology of point of use water treatment units under service conditions xix

†AUSTIN, B. *see* MCINTOSH, D.

AUSTIN, P. *see* COLLIER, P.J.

*BACK, J., COLLINS, M. D. & KROLL, R. G. Fluorescent oligonucleotide probes for *Listeria* spp. xxiii

*BACK, J. P. *see* PATCHETT, R. A.

†BALE, M. J. *see* HINTON, M.

BANTLE, J. A. *see* FEKETE, A.

BARAK, R. & CHET, I. Lectin of *Sclerotium rolfsii*; its purification and possible function in fungal–fungal interaction 101

BELDEN, E. L. *see* BHUNIA, A. K.

*BENNETT, A. M., WARNES, A. & POWELL, M. E. Aerosol stability of micro-organisms containing genetically manipulated plasmids xxvii

BEN-RUWIN, R. *see* ROGERS, S.

*BENTON, J. A., HINTON, M., PEARSON, G. R. & PERRY, G. C. Salmonella infections in chicks hatching from experimentally infected eggs xvii

BERNARDO, F. *see* MACHADO, J.

BETAIEB, M. *see* JONES, K.

BHUNIA, A. K., JOHNSON, M. C., RAY, B. & BELDEN, E. L. Antigenic property of pediocin AcH produced by *Pediococcus acidilactici* H 211

†BLAKEMAN, J. P. Foliar bacterial pathogens: epiphytic growth and interactions on leaves iv

BLOBEL, H. *see* SCHWARZ, S.

*BLOOMFIELD, S. *see* ARTHUR, M. *also* MEGID, R.

BOLTON, F. J. An investigation of indirect conductimetry for detection of some food-borne bacteria 655

*BOLTON, K. J. *see* WARD, H. M.

BREWER, D., PARKINSON, V. O. & TAYLOR, A. A note on the antibacterial properties of 3-(3'-

isocyanocyclopent-2'-enylidene)propionic acid in the ovine rumen 701
BROCKLEHURST, T. F. & LUND, B. M. The influence of pH, temperature and organic acids on the initiation of growth of *Yersinia enterocolitica* 390
BROOK, I. Growth of *Bacteroides fragilis* group in agar and broth media 697
BROOKER, B. *see* PIDOUX, M.
*BROOKS, J. L., MIRHABIBOLLAHI, B. & KROLL, R. G. Rapid, simple and sensitive electrical immunoassays for *Staphylococcus aureus* in foods xxii
BROWN, D. *see* LUND, B. M.
BROWN, V. R. & KNAPP, J. S. The effect of withdrawal of morpholine from the influent and its reinstatement on the performance and microbial ecology of a model activated sludge plant treating a morpholine-containing influent 43
BROWN, V. R., KNAPP, J. S. & HERITAGE, J. Instability of the morpholine-degradative phenotype in mycobacteria isolated from activated sludge 54
BRUYNEEL, B., VANDE WOESTYNE, M. & VERSTRAETE, W. Iron complexation as a tool to direct mixed clostridia-lactobacilli fermentations 80
BUCHAN, A. *see* AHMAD, A.
*BUTTERWORTH, J. & MCCARTNEY, H. A. Dispersal of foliar bacteria by rain splash xix
CAHILL, M. M. Virulence factors in motile *Aeromonas* species 1
CAMBRA, M. *see* ALARCON, B.
*CAMPBELL, C. K. Fungal zoonoses xi
*CARR, R. J. G. *see* CLARKE, D. J.
*CARTER, P. T. & PATTERSON, M. F. The survival and growth of *Listeria monocytogenes* in irradiated meats xxiii
*CAUL, E. O. The epidemiology of Q fever in the UK xi
*CHAFFEY, B. J. *see* ALCOCK, S. C.
CHET, I. *see* BARAK, R.
CHUNG, K.-T., THOMASSON, W. R. & WU-YUAN, C. D. Growth inhibition of selected food-borne bacteria, particularly *Listeria monocytogenes*, by plant extracts 498
CHURCHMAN-EISEL, N. *see* GRBIĆ-GALIĆ, D.
CLARK, D. C. *see* PINDER, A. C.
CLARK, R. P., OSBORNE, R. W., PRESSEY, D. C., GROVER, F., KEDDIE, J. R. & THOMAS, C. Open fronted safety cabinets in ventilated laboratories 338
*CLARKE, D. J., ZAMANI, A. F., PERKINS, E. A., JEPRAS, R. I. & CARR, R. J. G. Developing monitors and tests for water particulate quality xv
CLARKE, S. *see* AHMAD, A.
COLE, M. B., JONES, M. V. & HOLYOAK, C. The effect of pH, salt concentration and temperature on the survival and growth of *Listeria monocytogenes* 63
COLLIER, P. J., RAMSEY, A. J., AUSTIN, P. & GILBERT, P. Growth inhibitory and biocidal activity of some isothiazolone biocides 569
COLLIER, P. J., RAMSEY, A., WAIGH, R. D., DOUGLAS, K. T., AUSTIN, P. & GILBERT, P. Chemical reactivity of some isothiazolone biocides 578
*COLLINS, C. H. & GRANGE, J. M. The bovine tuberculosis cycle x
*COLLINS, M. D. *see* BACK, J.
*COOPER, H. The need for environmental control of genetically engineered organisms xvi
COSTAS, M., HOLMES, B. & WOOD, A. C. Numerical analysis of electrophoretic protein patterns of *Morganella morganii* strains from faeces, wound, urine and other clinical sources 426
COTHER, E. J. & GILBERT, R. L. Presence of *Erwinia chrysanthemi* in two major river systems and their alpine sources in Australia 729
†CROOK, N. E. & JARRETT, P. Viral and bacterial pathogens of insects vi
*CUTLER, S. J. Lyme borreliosis in domestic and wild animals in the UK x
DA COSTA, M. S. *see* MANAIA, C. M. *also* MORAIS, P. V.
DANE, C. R. *see* HOOD, A. M.
*DEGNAN, B. A. & MACFARLANE, G. T. Preferential uptake of sugars by bifidobacteria xxv
DE LA RUBIA, T. *see* MORENO, J.
DE LINDO, L. *see* HAYWARD, A. C.
DERRICK, C. *see* MACKEY, B.M.
*DODD, C. E. R. *see* ALCOCK, S. C. *also* TIBBLE, E.
DONAGHY, J. A., LEVETT, P. N. & HAYLOCK, R. W. Changes in microbial populations during anaerobic flax retting 634
DOUGLAS, K. T. *see* COLLIER, P. J.
*DRASAR, B. S. *see* HARLEY, V. S.
*EASTERBROOK, T. J., HAMMONDS, S. J. & MCILLMURRAY, M. B. A monoclonal antibody specific for lipoteichoic acid of *Streptococcus faecalis* xxvii
EDWARDS, C. *see* GOLDBERG, J. D.
EDWARDS, R. & GREENWOOD, D. Effect of growth conditions and storage on the specific activity of β-lactamases of *Bacteroides* spp. 421
EGAN, A. F. *see* MAJEED, K. N.
EKUNSANMI, T. J. & ODUNFA, S. A. Ethanol tolerance, sugar tolerance and invertase

activities of some yeast strains isolated from steep water of fermenting cassava tubers 672
EL-NASHAAR, H. M. *see* HAYWARD, A. C.
EMTIAZI, G., HABIBI, M. H. & SETAREH, M. Isolation of some new sulphur bacteria from activated sludge 864
*ETTEHADI, P. *see* ADAMS, M. R.
*EVANS, D. J., MINOR, P. D. & ALMOND, J. W. Poliovirus-derived epitope expression vectors xiii
FAIRHURST, C. P. *see* JASSIM, H. K.
FAREZ-VIDAL, M. E., FERNANDEZ-VIVAS, A. & ARIAS, J. M. Amylase programming during the life cycle of *Myxococcus coralloides* 119
*FAYINKA, S. T. *see* LAMIKANRA, A.
FEKETE, A., BANTLE, J. A., HALLING, S. M. & SANBORN, M. R. Preliminary development of a diagnostic test for *Brucella* using polymerase chain reaction 216
FERESU, S. & NYATI, H. Fate of pathogenic and non-pathogenic *Escherichia coli* strains in two fermented milk products 814
FERNÁNDEZ, T. *see* MONGINI, C.
FERNANDEZ-VIVAS, A. *see* FAREZ-VIDAL, M. E.
†FLANNIGAN, B., MCCABE, E. M. & MCGARRY, F. Allergenic and toxigenic micro-organisms in houses v
FLETCHER, M. *see* MCELDOWNEY, S.
*FLORIN, T. H. J. *see* GIBSON, G. R.
FOEGEDING, P. M. *see* KIM, J.
FONTAINE, E. A. & TAYLOR-ROBINSON, D. Comparison of quantitative and qualitative methods of detecting hydrogen peroxide produced by human vaginal strains of lactobacilli 326
FOSTER, H. A. *see* JASSIM, H. K.
*FOSTER, T. V. & LEE, J. V. The efficiency of cooling tower drift eliminators xix
FRICKER, C. R. *see* ARIMI, S. M.
FURUSE, K. *see* HAVELAAR, A. H.
GÁLVEZ, A., VALDIVA, E., MARTÍNEZ-BUENO, M. & MAQUEDA, M. Induction of autolysis in *Enterococcus faecalis* S-47 by peptide AS-48 406
GEORGE, S. M. *see* LUND, B. M.
GHANNOUM, M. A. *see* SORKHOH, N. A.
GIBSON, G. R. Physiology and ecology of the sulphate-reducing bacteria 769
*GIBSON, G. R., FLORIN, T. H. J., MACFARLANE, S. & MACFARLANE, G. T. Physical and chemical factors influencing the growth of sulphate-reducing bacteria in the human large intestine xxvi
GILBERT, P., PEMBERTON, D. & WILKINSON, D. E. Barrier properties of the Gram-negative cell envelope towards high molecular weight polyhexamethylene biguanides 585
GILBERT, P., PEMBERTON, D. & WILKINSON, D. E. Synergism within polyhexamethylene biguanide biocide formulations 593
GILBERT, P. *see* COLLIER, P. J.
GILBERT, R. L. *see* COTHER, E. J.
*GILMOUR, A. *see* MADDEN, R. H.
GOLDBERG, J. D. & EDWARDS, C. Purification and characterization of an extracellular amylase from a thermophilic streptomycete 712
*GOODALL, A. H. The logistics of monoclonal antibody production xii
GORRIS, M. T. *see* ALARCON, B.
GOWLAND, G. *see* HARNBY, D.
GRAHAM, A. F. *see* LUND, B. M.
*GRANGE, J. M. *see* COLLINS, C. H.
GRBIĆ-GALIĆ, D., CHURCHMAN-EISEL, N. & MRAKOVIĆ, I. Microbial transformation of styrene by anaerobic consortia 247
†GREEN, A. D. *see* MASTERTON, R. G.
GREENWOOD, D. *see* EDWARDS, R.
*GRIFFITHS, A., WARD, E. S., GÜSSOW, D. H., JONES, P. T. & WINTER, G. Expression and secretion of repertoires of VH domains in *Escherichia coli*: isolation of antigen binding activities xiii
GRIFFITHS, P. L. & PARK, R. W. A. Campylobacters associated with human diarrhoeal disease 281
*GRIFFITHS, P. L. *see* MORENO, G. S.
†GRIFFITHS, P. L. *see* PARK, R. W. A.
GROVER, F. *see* CLARK, R. P.
GUERRI, J. *see* ALARCON, B.
*GÜSSOW, D. H. *see* GRIFFITHS, A.
HABIBI, M. H. *see* EMTIAZI, G.
HAJOS, S. E. *see* MONGINI, C.
*HALL, L. R., HARDING, S. E. & WAITES, W. M. Use of bioluminescence to study heat resistance of spores of *Bacillus megaterium* KM xxiv
HALLING, S. M. *see* FEKETE, A.
*HAMMONDS, S. J. *see*, EASTERBROOK, T. J.
HARDING, C. D. & SHAW, B. G. Antimicrobial activity of *Leuconostoc gelidum* against closely related species and *Listeria monocytogenes* 648
*HARDING, S. E. *see* HALL, L. R.
*HARLEY, V. S., DRASAR, B. S. & TOVEY, G. The ultrastructure of *Legionella anisa* xxvii
HARNBY, D., GOWLAND, G., HOLLAND, K. T. & KEARNEY, J. N. The cutaneous microbiology of haired and hairless mice 686
HARRIGAN, W. F. *see* LUCHESE, R. H.
HASEGAWA, T. *see* TSUJIBO, H.
HAVELAAR, A. H., POT-HOGEBOOM, W. M., FURUSE, K., POT, R. & HORMANN, M. P. F-specific RNA bacteriophages and sensitive host strains in faeces and wastewater of human and animal origin 30
HAYLOCK, R. W. *see* DONAGHY, J. A.

HAYWARD, A. C., EL-NASHAAR, H. M., NYDEGGER, U. & DE LINDO, L. Variation in nitrate metabolism in biovars of *Pseudomonas solanacearum* 269
HEILBRONN, J. & LYON, G. D. The ineffectuality of potato protease inhibitor on the extracellular protease from *Erwinia carotovora* subsp. *carotovora* 25
HENRIKSSON, A. *see* RÖNNER, U.
HERITAGE, J. *see* BROWN, V. R.
*HERNANDEZ, M. *see* ADAMS, M. R.
HILL, S. *see* KAVANAGH, E.
*HINTON, M. The prevention and treatment of salmonella infections in chickens with chlortetracycline xxvi
†HINTON, M. & BALE, M.J. The ecology of animal bacterial pathogens in the environment vi
*HINTON, M. *see* BENTON, J. A. *also* MOHAMMED, M. D.
HOLAH, J. T. & THORPE, R. H. Cleanability in relation to bacterial retention on unused and abraded domestic sink materials 599
HOLLAND, K. T. *see* HARNBY, D.
HOLMES, B. *see* COSTAS, M.
HOLYOAK, C. *see* COLE, M. B.
HOOD, A. M., TUCK, A. & DANE C. R. A medium for the isolation, enumeration and rapid presumptive identification of injured *Clostridium perfringens* and *Bacillus cereus* 359
HORMANN, M. P. *see* HAVELAAR, A. H.
HOWELL, S. A., MALLETT, A. I. & NOBLE, W. C. A comparison of the sterol content of multiple isolates of the *Candida albicans* Darlington strain with other clinically azole-sensitive and -resistant strains 692
HUMPHREY, T. J. Heat resistance in *Salmonella enteritidis* phage type 4: the influence of storage temperatures before heating 493
*HUMPHREY, T. J. Zoonoses—are they important? ix
HUSMARK, U. & RÖNNER, U. Forces involved in the adhesion of *Bacillus cereus* spores to solid surfaces under different environmental conditions 557
HUSMARK, U. *see* RÖNNER, U.
†HUTSON, R. A. *see* TITBALL, R. W.
IBRAHIM, A. S. *see* SORKHOH, N. A.
INAMORI, Y. *see* TSUJIBO, H.
*ISON, C. The use of monoclonal antibodies in sexually transmitted infections xiii
†JARRETT, P. *see* CROOK, N. E.
JASSIM, H. K., FOSTER, H. A. & FAIRHURST, C. P. Biological control of Dutch elm disease: *Bacillus thuringiensis* as a potential control agent for *Scolytus scolytus* and *S. multistriatus* 563
†JENKINS, P. A. Mycobacteria in the environment ix
*JEPRAS, R. I. *see* CLARKE, D. J.
JOHNSON, M. C. *see* BHUNIA, A. K.
*JOHNSTON, A. M. Prevention and control of zoonotic infections xii
JONES, K., BETAIEB, M. & TELFORD, D. R. Seasonal variation of thermophilic campylobacters in sewage sludge 185
JONES, K., BETAIEB, M. & TELFORD, D. R. Correlation between environmental monitoring of thermophilic campylobacters in sewage effluent and the incidence of *Campylobacter* infection in the community 235
JONES, K., BETAIEB, M. & TELFORD, D. R. Thermophilic campylobacters in surface waters around Lancaster, UK: negative correlation with campylobacter infections in the community 758
JONES, M. V. *see* COLE, M. B.
*JONES, P. T. *see* GRIFFITHS, A.
KAVANAGH, E. & HILL, S. The automatic maintenance of low dissolved oxygen using a photobacterial oxygen sensor for the study of microaerobiosis 539
*KAY, M. *see* MORTON, L. H. G.
KEARNEY, J. N. *see* HARNBY, D.
*KEARNEY, T. E., LARKIN, M. J. & LEVETT, P. N. Fate of *Salmonella typhimurium* within anaerobic digestors xviii
KEDDIE, J. R. *see* CLARK, R. P.
KEETLEY, J. W. W. *see* LEIFERT, C.
*KEMP, J. S., MCKAY, T. & SEDDON, B. Yeast cells and their enumeration using differential staining fluorochromes xxii
KIM, J. & FOEGEDING, P. M. Effects of heat-, $CaCl_2$- and ethanol-treatments on activation of *Bacillus* spores 414
KNAPP, J. S. *see* BROWN, V. R.
KNEIFEL, W. *see* MANAFI, M.
*KROLL, R. G. & PATCHETT, R. A. Induced acid resistance in *Listeria monocytogenes* xxiii
*KROLL, R. G. *see* BACK, J. *also* BROOKS, J. L. *also* PATCHETT, R. A.
LABADIE, J. Synthesis of collagenase by the phytopathogenic bacterium *Corynebacterium rathayii* 828
LAMIKANRA, A. & FAYINKA, S. T. Incidence of multiple antibiotic resistances in faecal bacteria isolated from hospital and community populations in Nigeria xx
*LARKIN, M. J. *see* KEARNEY, T. E.
†LEE, J. V. & WEST, A. A. Survival and growth of *Legionella* species in the environment viii
*LEE, J. V. *see* FOSTER, T. V.
LEIFERT, C., WAITES, W. M., NICHOLS, J. R. &

KEETLEY, J. W. W. Yeast contaminants of micropropagated plant cultures 471
LEVETT, P. N. *see* DONAGHY, J. A.
*LEVETT, P. N. *see* KEARNEY, T. E.
*LINTON, C. J. & WRIGHT, S. J. L. Biological activity of volatile bacterial product(s) xxvi
*LINTON, C. J. *see* WRIGHT, S. J. L.
LOPEZ, M. M. *see* ALARCON, B.
LUCENA, F. *see* ARAUJO, R. M.
LUCHESE, R. H. & HARRIGAN, W. F. Growth of, and aflatoxin production by *Aspergillus parasiticus* when in the presence of either *Lactococcus lactis* or lactic acid and at different initial pH values 512
LUND, B. M., GRAHAM, A. F., GEORGE, S. M. & BROWN, D. The combined effect of incubation temperature, pH and sorbic acid on the probability of growth of non-proteolytic, type B *Clostridium botulinum* 481
LUND, B. M. *see* BROCKLEHURST, T. F.
LYON, G. D. *see* HEILBRONN, J.
MACFARLANE, G. T. *see* DEGNAN, B. A. *also* GIBSON, G. R.
*MACFARLANE, S. *see* GIBSON, G. R.
MACHADO, J. & BERNARDO, F. Prevalence of *Salmonella* in chicken carcasses in Portugal 477
MACKEY, B. M. & DERRICK, C. Heat shock protein synthesis and thermotolerance in *Salmonella typhimurium* 373
MAC RAE, I. C. *see* MAJEED, K. N.
*MADDEN, R. H., WATTS, M. & GILMOUR, A. Impedance as an alternative to MPN for total coliform enumeration in pasteurized milk xvii
MAJEED, K. N., EGAN, A. F. & MAC RAE, I. C. Production of exotoxins by *Aeromonas* spp. at 5°C 332
MAJUMDAR, M. K., SIKDAR, D. P., SARMA, A. B. & MAJUMDAR, S. K. A simple haemolytic method for quantitation of the delta endotoxin of *Bacillus thuringiensis* subsp. *israelensis* from crude samples 241
MAJUMDAR, S. K. *see* MAJUMDAR, M. K.
MALLET, A. I. *see* HOWELL, S. A.
MANAFI, M. & KNEIFEL, W. Rapid methods for differentiating Gram-positive from Gram-negative aerobic and facultative anaerobic bacteria 822
MANAIA, C. M., NUNES, O. C., MORAIS, P. V. & DA COSTA, M. S. Heterotrophic plate counts and the isolation of bacteria from mineral waters on selective and enrichment media 871
MAQUEDA, M. *see* GÁLVEZ, A.
MARSHALL, V. M. *see* PIDOUX, M.
MARTÍNEZ, J. *see* PÉREZ, J.
MARTÍNEZ-BUENO, M. *see* GÁLVEZ, A.
†MASTERTON, R. G. & GREEN, A. D. Dissemination of human pathogens by airline travel iii
*MATHIAS, G. M. *see* ROGERS, S.
†MCCABE, E. M. *see* FLANNIGAN, B.
*MCCALLION, D. *see* WRIGHT, S. J. L.
†MCCARTNEY, H. A. Airborn dissemination of plant fungal pathogens iii
*MCCARTNEY, H. A. *see* BUTTERWORTH, J.
MCELDOWNEY, S. & FLETCHER, M. The effect of physical and microbiological factors on food container leakage 190
MCELDOWNEY, S. & FLETCHER, M. A model system for the study of food container leakage 206
†MCFETTERS, G. A. & SINGH, A. Effects of aquatic environmental stress upon enteric bacterial pathogens vii
†MCGARRY, F. *see* FLANNIGAN, B.
*MCILLMURRAY, M. B. *see* EASTERBROOK, T. J.
†MCINTOSH, D. & AUSTIN, B. The potential role of cell wall-deficient bacteria (L-forms; sphaeroplasts) in animal diseases i
*MCKAY, T. *see* KEMP, J. S.
*MEGID, R. & BLOOMFIELD, S. F. Studies of the mode of action of iodine on spores of *Bacilus subtilis* xx
MICHIELS, K., VERRETH, C. & VANDERLEYDEN, J. *Azospirillum lipoferum* and *Azospirillum brasilense* surface polysaccharide mutants that are affected in flocculation 705
*MINOR, P. D. *see* EVANS, D. J.
*MIRHABIBOLLAHI, B. *see* BROOKS, J. L.
MIYAMOTO, K. *see* TSUJIBO, H.
*MOHAMMED, M. D. & HINTON, M. The influence of antibiotics on the colonization of the chick's intestine by salmonellas xvii
MONGINI, C., FERNÁNDEZ, T., TUROVETSKY, A. & HAJOS, S. E. Comparative study of cell-immunoenzymatic methods for the estimation of IgG and IgM anti-brucella antibodies in the diagnosis of human brucellosis 86
MORAIS, P. V. & DA COSTA, M. S. Alterations in the major heterotrophic bacterial populations isolated from a still bottled mineral water 750
MORAIS, P. V. *see* MANAIA, C. M.
*MORENO, G. S., PARK, R. W. A. & GRIFFITHS, P. L. Campylobacters in animal faeces xxv
†MORENO, G. S. *see* PARK, R. W. A.
MORENO, J., DE LA RUBIA, T., RAMOS-CORMENZANA, A. & VELA, G. R. Growth and nitrogenase activity of *Azotobacter vinelandii* on soil phenolic acids 850
†MORGAN, J. A. W. *see* PICKUP, R. W.
*MORGAN, M. R. A. *see* ALCOCK, S. C.
MORRIS, J. G. *see* WOOLEY, R. C.
*MORTON, L. H. G., PRINCE, E. L. & KAY, M. The biodeterioration of building materials in

contact with water xv
MOSSEL, D. A. A. *see* VAN NETTEN, P.
MRAKOVIĆ, I. *see* GRBIĆ-GALIĆ, D.
*MROCEK, P. R. *see* ADAMS, M. R.
MYHARA, R. M. & SKURA, B. Centroid search optimization of cultural conditions affecting the production of extracellular proteinase by *Pseudomonas fragi* ATCC 4973 530
NAMIKAWA, I. *see* TSUCHIYA, H.
NEILSON, A. H. The biodegradation of halogenated organic compounds 445
NEWMAN, H. N. *see* WILSON, M.
NICHOLAS, J. R. *see* LEIFERT, C.
NISHINO, H. *see* TSUJIBO, H.
NOBLE, W. C. *see* HOWELL, S. A. *also* WYATT, J. E.
NOUT, M. J. R. & ROMBOUTS, F. M. Recent developments in tempe research 609
NUNES, O. C. *see* MANAIA, C. M.
NYATI, H. *see* FERESU, S.
NYDEGGER, U. *see* HAYWARD, A. C.
O'CONNOR, B. *see* WILSON, M.
ODUNFA, S. A. *see* ADERIBIGBE, E. Y. *also* EKUNSANMI, T. J.
OSBORNE, R. W. *see* CLARK, R. P.
*PALMER, S. R. Chlamydiosis—current problems xi
PARES, R. *see* ARAUJO, R. M.
*PARK, R. W. A. An academic's thoughts on safety duties xviii
†PARK, R. W. A., GRIFFITHS, P. L. & MORENO, G. S. Sources and survival of campylobacters: relevance to enteritis and the food industry vi
PARK, R. W. A. *see* ARIMI, S. M. *also* GRIFFITHS, P. L.
*PARK, R. W. A. *see* MORENO, G. S. *also* POTTER, C. A. *also* ROGERS, S.
PARKINSON, V. O. *see* BREWER, D.
*PASSMORE, S. M. The occurrence of *Salmonella* spp. in imported animal feedingstuffs of vegetable origin xvii
*PATCHETT, R. A., BACK, J. P. & KROLL, R. G. Enumeration of bacteria by use of a commercial flow cytometer xxiii
*PATCHETT, R. A. *see* KROLL, R. G.
*PATTERSON, M. F. *see* CARTER, P. T.
*PEARSON, G. R. *see* BENTON, J. A.
PEMBERTON, D. *see* GILBERT, P.
PERALES, I. *see* VAN NETTEN, P.
PÉREZ, J., RAMOS-CORMENZANA, A. & MARTÍNEZ, J. Bacteria degrading phenolic acids isolated on a polymeric phenolic pigment 38
*PERKINS, E. A. *see* CLARKE, D. J.
*PERRY, G. C. *see* BENTON, J. A.
*PHILLIPS, I. *see* POWER, E. G. M.
†PICKUP, R. W., MORGAN, J. A. W., WINSTANLEY, C. & SAUNDERS, J. R. Implications for the release of genetically engineered micro-organisms ii
PIDOUX, M., MARSHALL, V. M., ZANONI, P. & BROOKER, B. Lactobacilli isolated from sugary kefir grains capable of polysaccharide production and minicell formation 311
PINDER, A. C., PURDY, P. W., POULTER, S. A. G. & CLARK, D. C. Validation of flow cytometry for rapid enumeration of bacterial concentrations in pure cultures.
POSTON, S. M. *see* WYATT, J. E.
POT, R. *see* HAVELAAR, A. H.
POT-HOGEBOOM, W. M. *see* HAVELAAR, A. H.
*POTTER, C. A. & PARK, R. W. A. Microbial removal of effluent vaporous organic compounds xxv
POULTER, S. A. G. *see* PINDER, A. C.
*POWELL, M. E. *see* BENNETT, A. M.
*POWER, E. G. M. & PHILLIPS, I. 4-Quinolones and the SOS response xxi
POWER, E. G. M. & RUSSELL, A. D. Sporicidal action of alkaline glutaraldehyde: factors influencing activity and a comparison with other aldehydes 261
PRESSEY, D. C. *see* CLARK, R. P.
*PRINCE, E. L. *see* MORTON, L. H. G.
PURDY, P. W. *see* PINDER, A. C.
QUADT, J. F. A. *see* SMELT, J. P. P. M.
RADLER, F. *see* RAMMELSBERG, M.
RADWAN, S. S. *see* AL MUSALLAM, A. A. *also* SORKHOH, N. A.
RAMMELSBERG, M. & RADLER, F. Antibacterial polypeptides of *Lactobacillus* species 177
RAMOS-CORMENZANA, A. *see* MORENO, J. *also* PEREZ, J.
RAMSEY, A. *see* COLLIER, P. J.
RAY, B. *see* BHUNIA, A. K.
*RICHARDS, B. M. An overview of the impact of EC legislation on innovation and manufacture in the UK biotechnology industry xvi
RICHARDSON, I. R. The incidence of *Bdellovibrio* spp. in man-made water systems: coexistence with legionellas 134
*RIGHELATO, R. C. Innovation in the food industry and legislative developments xvi
*ROBINSON, K. The use of protein electrofocussing for bacterial differentiation xxi
*ROGERS, S., BEN-RUWIN, R., MATHIAS, G. M., WILLIAMS, R. M. & PARK, R. W. A. The adhesion of *Aeromonas* bacteria isolated from food and clinical sources to human intestinal tissue xxiv
ROMBOUTS, F. M. *see* NOUT, M. J. R.
RÖNNER, U., HUSMARK, U. & HENRIKSSON, A. Adhesion of bacillus spores in relation to hydrophobicity 550

RÖNNER, U. *see* HUSMARK, U.
*ROWLANDS, D. J. The use of synthetic peptides as immunogens xii
ROY, D. & WARD, P. Evaluation of rapid methods for differentiation of *Bifidobacterium* species 739
RUSSELL, A. D. *see* POWER, E. G. M.
SAKAMOTO, T. *see* TSUJIBO, H.
SANBORN, M. R. *see* FEKETE, A.
SARMA, A. B. *see* MAJUMDAR, M. K.
SATO, M. *see* TSUCHIYA, H.
†SAUNDERS, J. R. *see* PICKUP, R. W.
†SCHUBERT, R. H. W. Aeromonads and their significance as potential pathogens in water ix
SCHWARZ, S., WEGENER, H. & BLOBEL, H. Plasmid-encoded resistance to macrolides and lincosamides in *Staphylococcus hyicus* 845
*SEDDON, B. *see* KEMP, J. S.
SETAREH, M. *see* EMTIAZI, G.
SEVIOUR, R. J. *see* SODDELL, J. A.
SHAW, B. G. *see* HARDING, C. D.
*SHERWOOD BURGE, P. Health problems associated with water in buildings xv
†SHOTTS, E. B. Selective isolation methods for bacterial fish pathogens v
SIKDAR, D. P. *see* MAJUMDAR, M. K.
†SINGH, A. *see* MCFETTERS, G. A.
SINGH, G. *see* TOORA, S.
SKINNER, G. R. B. *see* AHMAD, A.
SKURA, B. *see* MYHARA, R. M.
SMELT, J. P. P. M. & QUADT, J. F. A. A proposal for using previous experience in designing microbiological sampling plans based on variables 504
SODDELL, J. A. & SEVIOUR, R. J. Microbiology of foaming in activated sludge plants 145
SORKHOH, N. A., GHANNOUM, M. A., IBRAHIM, A. S., STRETTON, R. J. & RADWAN, S. S. Sterols and diacylglycerophosphocholines in the lipids of the hydrocarbon-utilizing prokaryote *Rhodococcus rhodochrous* 856
*STEPHEN, F. Design, operation and maintenance of water systems in modern buildings xiv
STILES, M. E. *see* AHN, C.
*STRAPPE, P. Enterovirus and rotavirus detection in water xxviii
STRETTON, R. J. *see* SORKHOH, N. A.
*TACHMINTZIS, J. EC legislation on the contained use and deliberate release to the environment of genetically modified organisms xv
TAKAGI, N. *see* TSUCHIYA, H.
TANI, H. *see* TSUCHIYA, H.
TAYLOR, A. *see* BREWER, D.
*TAYLOR, A. J. Control of potential health hazards from the use of genetically engineered organisms xvi
†TAYLOR, D. J. *see* WEST, P. A.
TAYLOR-ROBINSON, D. *see* FONTAINE, E. A.
TELFORD, D. R. *see* JONES, K.
THOMAS, C. *see* CLARK, R. P.
THOMASSON, W. R. *see* CHUNG, K.-T.
THORPE, R. H. *see* HOLAH, J. T.
*TIBBLE, E., DODD, C. E. R. & WAITES, W. M. The effect of live yoghurt consumption on faecal flora xx
†TITBALL, R. W., TURNBULL, P. C. B. & HUTSON, R. A. The monitoring and detection of *Bacillus anthracis* in the environment i
TOORA, S. & SINGH, G. Factors affecting production and activity of phospholipase C by *Yersinia enterocolitica* 113
*TOVEY, G. *see* HARVEY, V. S.
TSUCHIYA, H., SATO, M., YAMAMOTO, K., YAMAUCHI, M., TANI, H., NAMIKAWA, I. & TAKAGI, N. High-performance liquid chromatographic analysis of α-keto acids produced from amino acid metabolism in oral *Bacteroides* 125
TSUJIBO, H., MIYAMOTO, K., HASEGAWA, T. & INAMORI, Y. Purification and characterization of two types of alkaline serine proteases produced by an alkalophilic actinomycete 520
TSUJIBO, H., SAKAMOTO, T., NISHINO, H., HASEGAWA, T. & INAMORI, Y. Purification and properties of three types of xylanases produced by an alkalophilic actinomycete 398
TUCK, A. *see* HOOD, A. M.
†TURNBULL, P. C. B. *see* TITBALL, R. W.
TUROVETSKY, A. *see* MONGINI, C.
VALDIVA, E. *see* GÁLVEZ, A.
VAN DE MOOSDIJK, A. *see* VAN NETTEN, P.
VANDERLEYDEN, J. *see* MICHIELS, K.
VANDE WOESTYNE, M. *see* BRUYNEEL, B.
VAN HOENSEL, P. *see* VAN NETTEN, P.
VAN NETTEN, P., VAN DE MOOSDIJK, A., VAN HOENSEL, P., MOSSEL, D. A. A. & PERALES, I. Psychrotrophic strains of *Bacillus cereus* producing enterotoxin 73
VELA, G. R. *see* MORENO, J.
VERRETH, C. *see* MICHIELS, K.
VERSTRAETE, W. *see* BRUYNEEL, B.
VESEY, G. Detection of viable legionella within 5 hours xxviii
WAIGH, R. D. *see* COLLIER, P. J.
WAITES, W. M. *see* LEIFERT, C.
*WAITES, W. M. *see* ALCOCK, S. C. *also* HALL, L. R. *also* TIBBLE, E. *also* WARD, H. M.
*WAITKINS, S. A. Leptospirosis—an ever changing zoonotic disease x
*WARD, E. S. *see* GRIFFITHS, A.
*WARD, H. M., BOLTON, K. J. & WAITES, W. M. A microbiological survey of an abattoir xxiv
WARD, P. *see* ROY, D.

*WARNES, A. *see* BENNETT, A. M.
*WATTS, M. *see* MADDEN, R. H.
WEGENER, H. *see* SCHWARZ, S.
†WEST, A. A. *see* LEE, J. V.
†WEST, P. A. & TAYLOR, D. J. Human enteric viruses and parasites—emerging pathogens in the water cycle vii
WILKINSON, D. E. *see* GILBERT, P.
*WILLIAMS, R. M. *see* ROGERS, S.
WILSON, M., O'CONNOR, B. & NEWMAN, H. N. Effect of minocycline on subgingival plaque bacteria 228
†WINSTANLEY, C. *see* PICKUP, R. W.
*WINTER, G. *see* GRIFFITHS, A.
WOOD, A. C. *see* COSTAS, M.
WOOLLEY, R. C. & MORRIS, J. G. Stability of solvent production by *Clostridium acetobutylicum* in continuous culture: strain differences 718
*WRIGHT, S. J. L., LINTON, C. J. & MCCALLION, D. An endolithic (stone-boring) cyanobacterium in a hot spring ecosystem xviii
*WRIGHT, S. J. L. *see* LINTON, C. J.
WU-YUAN, C. D. *see* CHUNG, K.-T.
WYATT, J. E., POSTON, S. M. & NOBLE, W. C. Adherence of *Staphylococcus aureus* to cell monolayers 834
YAMAMOTO, K. *see* TSUCHIYA, H.
YAMAUCHI, M. *see* TSUCHIYA, H.
YUAN, W. Culture medium for *Xanthomonas campestris* pv. *oryzae* 798
*ZAMANI, A. F. *see* CLARKE, D. J.
ZANONI, P. *see* PIDOUX, M.

Index of Subjects

Entries marked * refer to abstracts or titles of papers listed in Proceedings at meetings of the Society for Applied Bacteriology. Small roman numerals refer to pages in Proceedings at meetings of the Society for Applied Bacteriology.

Entries marked † refer to titles of Symposium papers published in a separate volume.

*Abbatoir microbiological survey (WARD, BOLTON & WAITES) xxiv
Activated sludge foaming (SODDELL & SEVIOUR) 145
Activation of *Bacillus* spores (KIM & FOEGEDING) 414
Adherence of *Staphylococcus aureus* (WYATT, POSTON & NOBLE) 834
†Aeromonads (SCHUBERT) ix
*Aeromonas adhesion to human intestinal tissue (ROGERS, BEN-RUWIN, MATHIAS, WILLIAMS & PARK) xxiv
Aeromonas spp. in coastal waters (ARAUJO, PARES & LUCENA) 439
*Aerosol stability of micro-organisms (BENNETT, WARNES & POWELL) xxvii
†Airborne dissemination of plant fungal pathogens (MCCARTNEY) iii
Alkaline serine proteases (TSUJIBO, MIYAMOTO, HASEGAWA & INAMORI) 520
†Allergenic and toxigenic micro-organisms (FLANNIGAN, MCCABE & MCGARRY) v
Amylase from *Myxococcus coralloides* (FAREZ-VIDAL, FERNANDEZ-VIVAS & ARIAS) 119
Amylase from *Streptomyces thermoviolaceus* (GOLDBERG & EDWARDS) 712
Anaerobic degradation of styrene (GRBIĆ-GALIĆ, CHURCHMAN-EISEL & MRAKOVIĆ) 247
*Anaerobic digesters (KEARNEY, LARKIN & LEVETT) xviii
†Animal bacterial pathogens (HINTON & BALE) vi
Antibacterial polypeptides of *Lactobacillus* (RAMMELSBERG & RADLER) 177
Antibacteriosis in the ovine rumen (BREWER, PARKINSON & TAYLOR) 701
*Antigen binding activities (GRIFFITHS, WARD, GÜSSOW, JONES & WINTER) xiii
Antigenic property of pediocin AcH (BHUNIA, JOHNSON, RAY & BELDEN) 211
†Aquatic environmental stress on enteric bacterial pathogens (MCFETERS & SINGH) vii
Aspergillus parasiticus (LUCHESE & HARRIGAN) 512
Autolysin activation in *Enterococcus faecalis* (GÁLVEZ, VALDIVIA, MARTÍNEZ-BUENO & MAQUEDA) 406
Azospirillum polysaccharide mutants (MICHIELS, VERRETH & VANDERLEYDEN) 705
Azotobacter vinelandii (MORENO, DE LA RUBIA, RAMOS-CORMENZANA & VELA) 850
†*Bacillus anthracis* (TITBALL, TURNBULL & HUSTON) i
Bacillus cereus spore adhesion (HUSMARK & RÖNNER) 557
Bacillus species from iru (ADERIBIGBE & ODUNFA) 662
Bacillus spore adhesion (RÖNNER, HUSMARK & HENRIKSSON) 550
**Bacillus subtilis* spores (ARTHUR & BLOOMFIELD) xx
Bacteria from mineral waters (MANAIA, NUNES, MORAIS & DA COSTA) 871
Bacteria in bottled water (MORAIS & DA COSTA) 750
Bacteroides fragilis growth (BROOK) 697
*Bifidobacteria (DEGNAN & MACFARLANE) xxv
Biodegradation of halogenated organic compounds (NEILSON) 445
*Biodeterioration of building materials (MORTON, PRINCE & KAY) xv
*Biological activity of bacterial products (LINTON & WRIGHT) xxvi
*Bovine tuberculosis (COLLINS & GRANGE) x
**Brochothrix thermosphacta* detection (ALCOCK, CHAFFEY, DODD, MORGAN & WAITES) xxi
Brucellosis diagnosis (FEKETE, BANTLE, HALLING & SANBORN) 216
Campylobacters and human diarrhoeal disease (GRIFFITHS & PARK) 281
*Campylobacters in animal faeces (MORENO, PARK & GRIFFITHS) xxv
Campylobacters in sewage effluent (JONES, BETAIEB & TELFORD) 235
Campylobacters in sewage sludge (JONES, BETAIEB & TELFORD) 185
Campylobacters in surface waters (JONES, BETAIEB & TELFORD) 758

†Cell wall-deficient bacteria (McIntosh & Austin) i
*Chlamydiosis (Palmer) xi
*Chlortetracycline treatment of salmonella infections (Hinton) xxvi
Cleanability of domestic sink materials (Holah & Thorpe) 599
Clostridium botulinum (Lund, Graham, George & Brown) 481
*Coliform enumeration in pasteurized milk (Madden, Watts & Gilmour) xvii
Collagenase induction (Labadie) 828
Continuous culture of *Cl. acetobutylicum* (Woolley & Morris) 718
*Control of potential health hazards (Taylor) xvi
*Cooling tower drift eliminators (Foster & Lee) xix
Crop contamination with *Listeria monocytogenes* (Al-Ghazali & Al-Azawi) 642
Cutaneous microbiology of mice (Harnby, Gowland, Holland & Kearney) 686
*Detection of legionella (Vesey) xviii
Diagnosis of human brucellosis (Mongini, Fernández, Turovetzky & Hajos) 86
Differentiation of bifidobacteria (Roy & Ward) 739
Dutch elm disease (Jassim, Foster & Fairhurst) 563
*EC legislation (Tachmintzis) xv
*Effluent vaporous organic compounds (Potter & Park) xxv
*Electrical immunoassays for *Staphylococcus aureus* (Brooks, Mirhabibollahi & Kroll) xxii
*Endolithic cyanobacterium (Wright, Linton & McCallion) xviii
Enterotoxigenic psychrotrophic *Bacillus cereus* (van Netten, van de Moosdijk, van Hoensel, Mossel & Perales) 73
*Enterovirus and rotavirus detection (Strappe) xxviii
*Environmental control of genetically engineered organisms (Cooper) xvi
Erwinia carotovora protease (Heilbronn & Lyon) 25
Erwinia in alpine water sources (Cother & Gilbert) 729
Escherichia coli in fermented milk (Feresu & Nyati) 814
Exotoxin production by aeromonads (Majeed, Egan & Mac Rae) 332
Extracellular proteinase production by *Pseudomonas fragi* (Myhara & Skura) 530
†Fish pathogens (Shotts) v
Flax retting (Donaghy, Levett & Haylock) 634
*Flow cytometer (Patchett, Back & Kroll) xxiii
Flow cytometry of bacteria (Pinder, Purdy, Poulter & Clark) 92
*Fluorescent oligonucleotide probes for *Listeria* spp. (Back, Collins & Kroll) xxiii
*Foliar bacteria dispersal (Butterworth & McCartney) xix
†Foliar bacterial pathogens (Blakeman) iv
Food container leakage (McEldowney & Fletcher) 190
Food container leakage model system (McEldowney & Fletcher) 206
*Food industry (Righelato) xvi
Food-borne bacteria (Chung, Thomasson & Wu-Yuan) 498
FRNA-phages in faeces and wastewater (Havelaar, Pot-Hogeboom, Furuse, Pot & Hormann) 30
*Fungal zoonoses (Campbell) xi
†Genetically engineered micro-organisms (Pickup, Morgan, Winstanley & Saunders) ii
Gram differentiation of bacteria (Manafi & Kneifel) 822
Haemolysis by campylobacters (Arimi, Park & Fricker) 384
*Health problems associated with water in buildings (Sherwood Burge) xv
Heat resistance in *Salmonella enteritidis* (Humphrey) 493
*Heat resistance of *Bacillus* spores (Hall, Harding & Waites) xxiv
HPLC and characterization of *Bacteroides* (Tsuchiya, Sato, Yamamoto, Yamauchi, Tani, Namikawa & Takagi) 125
†Human enteric viruses and parasites (West & Taylor) vii
†Human pathogen dissemination (Masterton & Green) iii
Hydrogen peroxide produced by vaginal lactobacilli (Fontaine & Taylor-Robinson) 326
Indirect conductimetric assay (Bolton) 655
*Induced acid resistance in *Listeria monocytogenes* (Kroll & Patchett) xxiii
*Iodine action on *Bacillus subtilis* spores (Megid & Bloomfield) xx
Iron and mixed cultures (Bruyneel, Vande Woestyne & Verstraete) 80
Isolation of injured *Clostridium perfringens* and *Bacillus cereus* (Hood, Tuck & Dane) 359
Isothiazolone biocides (Collier, Ramsey, Austin & Gilbert) 569
Isothiazolone biocides (Collier, Ramsey, Waigh, Douglas, Austin & Gilbert) 578
β-Lactamases of *Bacteroides* spp. (Edwards & Greenwood) 421

Lactic acid bacteria in vacuum-packaged meats (AHN & STILES) 302
Lactobacilli from kefir grains (PIDOUX, MARSHALL, ZANONI & BROOKER) 311
Lectin of *Sclerotium rolfsii* (BARAK & CHET) 101
**Legionella anisa* (HARLEY, DRASAR & TOVEY) xxvii
†Legionella in the environment (LEE & WEST) viii
Legionella/Bdellovibrio coexistence (RICHARDSON) 134
*Leptospirosis (WAITKINS) x
Lipids in *Rhodococcus rhodochrous* (SORKHOH, GHANNOUM, IBRAHIM, STRETTON & RADWAN) 856
Listeria inhibition by *Leuconostoc* (HARDING & SHAW) 648
**Listeria monocytogenes* in irradiated meats (CARTER & PATTERSON) xxiii
Listeria survival and growth models (COLE, JONES & HOLYOAK) 63
*Live yoghurt consumption and faecal flora (TIBBLE, DODD & WAITES) xx
*Lyme borreliosis (CUTLER) x
Microaerobiosis (KAVANAGH & HILL) 539
Microbiological sampling plans (SMELT & QUADT) 504
Minocycline and plaque bacteria (WILSON, O'CONNER & NEWMAN) 228
*Monoclonal antibodies in sexually transmitted infections (ISON) xiii
*Monoclonal antibody for lipoteichoic acid of *Streptococcus faecalis* (EASTERBROOK, HAMMONDS & MCILLMURRAY) xxvii
*Monoclonal antibody production (GOODALL) xii
Morpholine biodegradation in activated sludge (BROWN & KNAPP) 43
Morpholine-degradative phenotype in mycobacteria (BROWN, KNAPP & HERITAGE) 54
*Multiple antibiotic resistances (LAMIKANRA & FAYINKA) xx
†Mycobacteria in the environment (JENKINS) ix
Nitrate metabolism in *Pseudomonas solanacearum* (HAYWARD, EL-NASHAAR, NYDEGGER & DE LINDO) 269
Obiolar fermentation (ACHI) 321
Olive oil mills phenolics degradation (PÉREZ, RAMOS-CORMENZANA & MARTÍNEZ) 38
Phospholipase C production by *Yersinia enterocolitica* (TOORA & SINGH) 113
Plasmid-encoded resistance (SCHWARZ, WEGENER & BLOBEL) 845
*Point of use water treatment units (ASHWORTH) xix
*Poliovirus-derived epitope expression vectors (EVANS, MINOR & ALMOND) xiii
Polyhexamethylene biguanide formulations (GILBERT, PEMBERTON & WILKINSON) 593
Polyhexamethylene biguanides (GILBERT, PEMBERTON & WILKINSON) 585
*Prevention and control of zoonotic infections (JOHNSTON) xii
*Protein electrofocussing for bacterial differentiation (ROBINSON) xxi
Protein patterns of *Morganella morganii* 426
*Q fever (CAUL) xi
Quantitation of delta endotoxin (MAJUMDAR, SIKDAR, SARMA & MAJUMDAR) 241
*4-Quinolones and the SOS response (POWER & PHILLIPS) xxi
Safety cabinet containment (CLARK, OSBORNE, PRESSEY, GROVER, KEDDIE & THOMAS) 338
*Safety duties (PARK) xviii
*Salmonella colonization of chick's intestine (MOHAMMED & HINTON) xvii
*Salmonella in animal feedingstuffs (PASSMORE) xvii
Salmonella in chicken carcasses (MACHADO & BERNARDO) 477
*Salmonella infections and experimentally infected eggs (BENTON, HINTON, PEARSON & PERRY) xvii
Soft-rot erwinias and their distinction by Western blot (ALARCON, LOPEZ, CAMBRA, GORRIS & GUERRI) 17
†Sources and survival of campylobacters (PARK, GRIFFITHS & MORENO) vi
Sporicidal action of alkaline glutaraldehyde (POWER & RUSSELL) 261
Sterols of *Candida albicans* Darlington (HOWELL, MALLET & NOBLE) 692
Sulphate-reducing bacteria (GIBSON) 769
*Sulphate-reducing bacteria in the human large intestine (GIBSON, FLORIN, MACFARLANE & MACFARLANE) xxvi
Sulphur bacteria in activated sludge (EMTIAZI, HABIBI & SETAREH) 864
*Synthetic peptides as immunogens (ROWLANDS) xii
Tempe research (NOUT & ROMBOUTS) 609
Thermotolerance in *Salmonella typhimurium* (MACKEY & DERRICK) 373
*UK biotechnology industry (RICHARDS) xvi
Vaccine for *Staphylococcus epidermidis* (AHMAD, CLARKE, BUCHAN & SKINNER) 676
*Vegetable fermentation (ADAMS, ETTEHADI, HERNANDEZ & MROCEK) xxi
†Viral and bacterial insect pathogens (CROOK & JARRETT) vi
Virulence factors in Aeromonas (CAHILL) 1
*Water particulate quality (CLARKE, ZAMANI, PERKINS, JEPRAS & CARR) xv
*Water quality (ASHWORTH) xiv
*Water system design, operation and maintenance (STEPHEN) xiv

Wool-colonizing micro-organisms (AL MUSALLAM & RADWAN) 806
Xanthomonas campestris pv. *oryzae* (YUAN) 798
Xylanses from alkalophilic actinomycete (TSUJIBO, SAKAMOTO, NISHINO, HASEGAWA & INAMORI) 398
*Yeast cells and their enumeration (KEMP, MCKAY & SEDDON) xxii
Yeast contaminants (LEIFERT, WAITES, NICHOLAS & KEETLEY) 471
Yeast strains from fermenting cassava (EKUNSANMI & ODUNFA) 672
Yersinia enterocolitica growth 390
Zoonoses (HUMPHREY) ix